

CLAIMS

What is claimed is:

1. A broadhead arrowhead comprising:

a ferrule;

at least one blade assembly coupled to and extending
outwardly from said ferrule;

said blade assembly having a first substantially
planar portion disposed in a plane at least
substantially parallel to the longitudinal axis of
said ferrule and a second portion wherein said
second portion is disposed at an angle to the plane
of said first planar portion and said second portion
is also disposed at an angle to the longitudinal
axis of said ferrule;

a generally continuously curved region disposed
between and connecting said first and second
portions, wherein said blade assembly has an
airfoil-type shape; and

wherein said first portion couples said blade to said
ferrule.

2. An arrowhead according to claim 1,
further comprising a plurality of said blade
assemblies disposed substantially symmetrically around
the longitudinal axis of said ferrule.
3. An arrowhead according to claim 2,
wherein said blade assemblies are manufactured from a
flexible material.
4. An arrowhead according to claim 3,
further comprising at least three blade assemblies
disposed substantially symmetrically around the
longitudinal axis of said ferrule spaced at angles of
approximately 120° from each other.
5. An arrowhead according to claim 3,
further comprising means for mounting said arrowhead
to an arrow shaft.

6. An arrowhead according to claim 5,

wherein said arrowhead mounting means comprises a stub member extending from one end of said ferrule substantially coaxial with the longitudinal axis of said ferrule.
7. An arrowhead according to claim 4,

wherein one end portion of said ferrule is tapered substantially to a point.
8. An arrowhead according to claim 3,

wherein said second portion is disposed at an angle of between about 5° and about 25° relative to the plane of said first substantially planar portion.
9. An arrowhead according to claim 3,

wherein said second portion has a length of between about 20% and about 50% of the overall length of said blade assembly.

10. An arrowhead according to claim 3,

wherein said continuously curved region has a radius

of curvature between about 0.2" and 0.5".
11. An arrowhead according to claim 3,

wherein said second portion has a trailing edge region

disposed at an angle to said ferrule.
12. An arrowhead according to claim 11,

wherein said trailing edge region is disposed at an

angle to said ferrule in the range of about 5 degrees

and about 45 degrees.
13. An arrowhead according to claim 12,

wherein said trailing edge region is disposed at an

angle to said ferrule in the range of about 5 degrees

and about 35 degrees.

14. An broadhead arrow, comprising:

a ferrule;

at least one blade assembly coupled to and extending
outwardly from said ferrule;

said blade assembly having a first substantially
planar portion disposed in a plane at least
substantially parallel to the longitudinal axis of
said ferrule and a second portion wherein said
second portion is disposed at an angle to the plane
of said first planar portion and said second portion
is also disposed at an angle to the longitudinal
axis of said ferrule;

a generally continuously curved region disposed
between and connecting said first and second
portions, wherein said blade assembly has an
airfoil-type shape;

wherein said first substantially planar portion
couples said blade to said ferrule; and

a shaft devoid of fletching, said arrowhead being
secured to one end region of said shaft.

15. An arrow according to claim 14,

further comprising a plurality of said blade

assemblies disposed substantially symmetrically around

the longitudinal axis of said ferrule.
16. An arrow according to claim 15,

wherein said blade assemblies are manufactured from a

flexible material.
17. An arrow according to claim 16,

further comprising at least three blade assemblies

disposed substantially symmetrically around the

longitudinal axis of said ferrule spaced at angles of

approximately 120° from each other.
18. An arrow according to claim 16,

further comprising means for mounting said arrowhead

to an arrow shaft.

19. An arrow according to claim 18,
wherein said arrowhead mounting means comprises a stub
member extending from one end of said ferrule
substantially coaxial with the longitudinal axis of
said ferrule.
20. An arrow according to claim 17,
wherein one end portion of said ferrule is tapered
substantially to a point.
21. An arrow according to claim 16,
wherein said second portion is disposed at an angle of
between about 5° and about 25° relative to the plane of
said first substantially planar portion.
22. An arrow according to claim 16,
wherein said second portion has a length of between
about 20% and about 50% of the overall length of said
blade assembly.

23. An arrow according to claim 16,
wherein said continuously curved region has a radius
of curvature between about 0.2" and 0.5".
24. An arrow according to claim 16,
wherein said second portion has a trailing edge region
disposed at an angle to said ferrule.
25. An arrow according to claim 24,
wherein said trailing edge region is disposed at an
angle to said ferrule in the range of about 5 degrees
and about 45 degrees.
26. An arrow according to claim 25,
wherein said trailing edge region is disposed at an
angle to said ferrule in the range of about 5 degrees
and about 35 degrees.